DATA SHEET

HATTELAND® DISPLAY

Manufacturer:	**Hatteland Display AS**
Product:	**8.0 inch Standard Display (STD)**
Type:	**HD 08T21 STD-xxx-Fxxx**

Last Revised:	**04 Aug 2016**
Revision#:	**18**

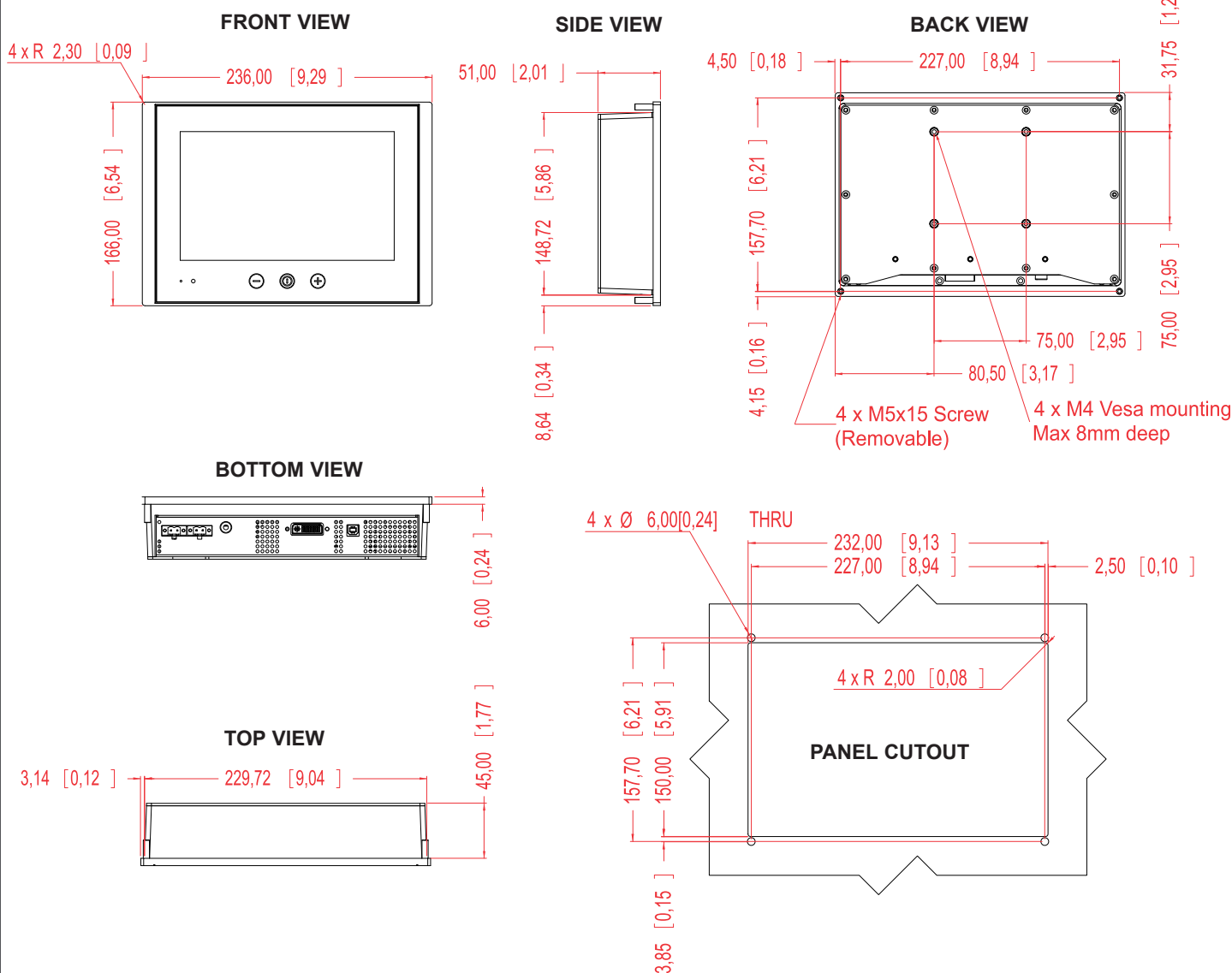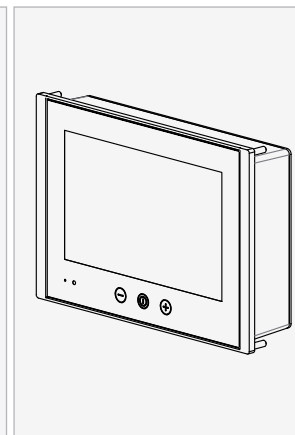## 8.0 inch Standard Display (STD) - Series X

Features:

Series X Displays and Panel Computers offer the ultimate in performance, convenience, state of the art design and enduring quality for system integrators and boat builders. Series X products offer a range of feature sets optimized for varying requirements and applications.

The Series X display range is a flexible monitor solution designed and type approved for the professional maritime segment, where reliability and long life time are key pre-requisites for the industry. The product range combines stunning design and technology with innovative features and options, making it all that the integrator needs for top class type-approved marine systems.

The entry level STD models provide a wide choice of display size and format for shipboard applications where simple data input (DVI & VGA) is required. Be it for ship navigation or automation, this range with all it's possible options provides a robust and cost effective platform from which to display and manage data.

This model is delivered with a factory mounted Projected Capacitive Touch Screen (Multitouch, USB interface) as standard and feature LED Backlight Technology.

FRONT VIEW

4 x R 2,30 ⌊0,09⌋
236,00 [9,29]
166,00 [6,54]

SIDE VIEW

51,00 ⌊2,01⌋
148,72 [5,86]
8,64 [0,34]

BACK VIEW

4,50 [0,18]
227,00 [8,94]
31,75 [1,25]
157,70 [6,21]
2,95
75,00 [2,95]
4,15 [0,16]
75,00 [2,95]
80,50 [3,17]
4 x M5x15 Screw (Removable)
4 x M4 Vesa mounting Max 8mm deep

BOTTOM VIEW

6,00 [0,24]

TOP VIEW

3,14 [0,12]
229,72 [9,04]
45,00 [1,77]

4 x Ø 6,00 [0,24]   THRU
232,00 [9,13]
227,00 [8,94]
2,50 [0,10]
4 x R 2,00 [0,08]

PANEL CUTOUT

157,70 [6,21]
150,00 [5,91]
3,85 [0,15]

Dimensions might be shown with or without decimals and indicated as mm [inches]. Tolerance on drawings is +/- 1mm. For accurate measurements, check relevant DWG file.

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SPECIFICATIONS

Note: All specifications are subject to change without prior notice!
Please visit www.hatteland-display.com for the latest electronic version.

HATTELAND®
D I S P L A Y

TFT Technology:

- 8.0 inch TFT Liquid Crystal Display module
- Widescreen, Aspect Ratio 5:3
- LED Backlight Technology
- TTL Interface
- a-si TFT Active Matrix

TFT Characteristics:

- Native Resolution   : 800 x 480 (WVGA)
- Pixel Pitch (RGB)   : 0.2168 (H) x 0.2168 (V) mm
- Response Time   : 5/11ms (typical) (Tr/Tf)
- Contrast Ratio   : 600:1 (typical)
- Light Intensity Standard : 600 cd/m^2 (typical)
- Viewable Angle   : 70 deg (H) 60 deg (V) (typical)
- Active Display Area   : 173.4 (H) x 104.4 (V) mm
- Max Colors   : 16.7 million

Synchronization:

- Digital separate synchronization
- Composite synchronization
- Synchronization on green
- Auto detects on chosen source
- Video Signal   : Analog RGB 0,7Vp-p
                     : Input Impedance 75 Ohm

Synchronization Range:

- Horizontal   : 24 kHz to 81 kHz
- Vertical   : 50 Hz to 75 Hz*

* 60Hz is recommended for optimal picture quality

Supported Signals:

Resolutions:

- WVGA   : 640 x 480, 720 x 400, 800 x 480*

* Recommended for optimal picture quality

Power Specifications:

Power Supply:

- 2 x 24VDC   : Model HD 08T21 STD-Exx-Fxxx
  Dual input, galvanic isolated, automatic switch between power source

Power Consumption:

- Operating   : 20W (typ) - 30W (max)

Physical Considerations:

- W:236.00 [9.29"] x H:166.00 [6.54"] x D:51.00 [2.01"] mm [inch]
- 4 x M4 VESA mounting 75x75mm, Max 8mm deep
- Built-in Console mounting 4 x M5x15mm screws
- Weight: 1.7kg / 3.7lbs

Signal Terminals:

- DVI-I Signal IN   : 1 x 29p DVI Female or RGB IN with adapter
- Touchscreen   : 1 x USB TYPE B Connector (female)
- DC Power IN   : 2 x 2-pin Terminal Block 5.08

User Controls:

Behind front bezel - Glass Display Control™ (GDC) IP66:
- Power On/Off, Brightness Control (-/+), Light Sensor (not visible),
- Programmable Alarm LED, Buzzer (not visible)

Environmental Considerations:

- Operating   : Temperature -15 deg. C to +55 deg. C
                  - Humidity up to 95%
- Storage   : Temperature -20 deg. C to +60 deg. C
                  - Humidity up to 95%
- IP Rating   : Protection: IP66 front - IP22 rear (EN60529)

Lifetime Considerations:

Even although the test conditions for bridge units provide for a maximum operating temperature of 55°C, continuous operation of all electronic components should, if possible, take place at ambient temperatures of only 25°C. This is a necessary prerequisite for long life and low service costs.

Available Accessories:

- HD WBK-SX1-A1   : 1 x Wallmount Box, not EN60945 Tested

Please see user manual/drawings for more information

Factory Mounted Options:

- Optical Bonding Technology

Factory Defaults:

- Projected Capacitive Touch Screen (Multitouch, USB interface)

Available Standard Models:

- HD 08T21 STD-EA1-FAGP   = Dual DC, GDC, Buzzer, PCTouch
- HD 08T21 STD-EA1-FOGP   = Dual DC, Optical Bonding Technology, GDC, Buzzer, PCTouch

Compass Safe Distance: HD 08T21 STD-xxx-Fxxx   Standard: 45cm   Steering: 30cm

TESTING/APPROVALS & CERTIFICATES

This product have been tested / type approved by the following classification societies:

IEC 60945 4th (EN 60945:2002)	**IACS E10**	**ClassNK** - Nippon Kaiji Kyokai	**GL** - Germanischer Lloyd
DNV - Det Norske Veritas	**ABS** - American Bureau of Shipping	**BV** - Bureau Veritas	**LRS** - Loyd's Register of Shipping
EU RO MR - Mutual Recognition	**CCS** - China Classification Society		